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Application No.: 10/047,681

Atty Docket No.: JCLA7793

IN THE CLAIMS:

1. (Currently Amended) A bonded anisotropic conductive film, comprising:

a thermal set plastic material, capable of hardened hardening after being raised to at a first

temperature; and

a plurality of conductive particles within the plastic material, wherein each conductive

particle has a conductive bead, a bonding layer and an flux-insulating layer, wherein the bonding

layer is comprised of a conductive material and covers the surface of the conductive bead, and

wherein the flux-insulating layer covers the bonding layer forms an outermost covering layer of

each of said conductive bead, and wherein the bonding layer melts at a second temperature and

the second temperature is higher than the first temperature.

2. (Original) The bonded anisotropic conductive film of claim I, wherein material

forming the conductive bead includes gold.

3. (Currently Amended) The bonded anisotropic conductive film of claim 1, wherein

material forming the bonding layer includes lead-tin solder-alloy.

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4. (Currently Amended) A bonded anisotropic conductive film, comprising:

a plastic material; and

a plurality of conductive particles within the plastic material, wherein each conductive

particle has a conductive bead, a bonding layer and an flux insulating layer, wherein the bonding

layer is comprised of a conductive material and covers the surface of the conductive bead, and

wherein the flux insulating layer forms an outermost covers covering layer of each of said

conductive beadthe bonding layer.

5. (Original) The bonded anisotropic conductive film of claim 4, wherein the plastic

material includes a thermal set material.

6. (Original) The bonded anisotropic conductive film of claim 4, wherein material

forming the conductive bead includes gold.

7. (Currently Amended) The bonded anisotropic conductive film of claim 4, wherein

material forming the bonding layer includes lead-tin solder-alloy.

8. (Original) The bonded anisotropic conductive film of claim 4, wherein the plastic

material hardens after being raised to a first temperature and the bonding layer melts at a second

temperature such that the second temperature is higher than the first temperature.

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9. (Currently Amended) A bonded anisotropic conductive film, comprising:

a plastic material; and

a plurality of conductive particles within the plastic material, wherein each conductive

particle has a bonding layer and an flux-insulating layer, wherein the bonding layer is comprised

of a conductive material and forms a spherical structure, and wherein the flux-insulating layer

forms an outermost covering of each of the surface of the bonding-layer conductive particle.

10. (Original) The bonded anisotropic conductive film of claim 9, wherein the plastic

material includes a thermal set material.

11. (Original) The bonded anisotropic conductive film of claim 9, wherein the bonding

layer includes a conductive bead.

12. (Original) The bonded anisotropic conductive film of claim 11, wherein material

forming the conductive bead includes gold.

13. (Currently Amended) The bonded anisotropic conductive film of claim 9, wherein

material forming the bonding layer includes lead-tin solder-alloy.

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14. (Original) The bonded anisotropic conductive film of claim 9, wherein the plastic

material hardens after being raised to a first temperature and the bonding layer melts at a second

temperature such that the second temperature is higher than the first temperature.

15. (Original) A flip chip package having a bonded anisotropic conductive film structure

in any one of the claims from 4 to 8, comprising:

a silicon chip, a carrier and a bonded anisotropic conductive film, wherein the silicon chip

has a plurality of first contact points thereon and the carrier has a plurality of contact points

thereon that correspond in position to the first contact points, the bonded anisotropic conductive

film is inserted between the silicon chip and the carrier such that each pair of corresponding first

contact point and second contact point form a common metallic bond through the bonding layer

of conductive particles within the bonded anisotropic conductive film.

16. (Original) The flip chip package of claim 15, wherein material forming the conductive

bead includes gold.

17. (Currently Amended) The flip chip package of claim 15, wherein material forming the

bonding layer includes lead-tin solder-alloy.